

Use Attainability Analysis

for

WBID 1268 Tributary to Massey Creek

Submitted by BWR

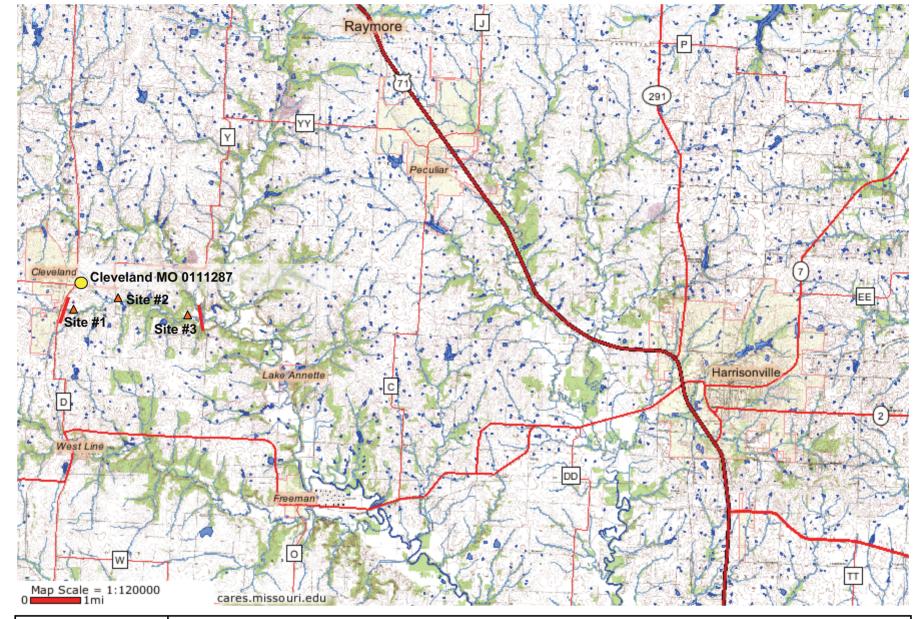
June 1, 2007

Submitted to:
Missouri Department of Natural Resources
Division of Environmental Quality
Water Protection Program

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

| I. Water Body Information (For water body being surveyed) | ly identification |
|---|--|
| Water Body Name (from USGS 7.5' quad): Tribu | tary to Massey Creek |
| Missouri Water Body Identification (WBID) Number: | 1268 |
| 8-digit HUC: 102 9016 8 | County: CASS |
| Upstream Legal Description (from Table H): 33 | 45N.33W |
| Downstream Legal Description(from Table H): | in th |
| Number of sites evaluated 3 | 7001. |
| List all sites numbers, listed consequently upstream to do | ownstream: |
| Site Locations Map(s): Attach a map of entire segment wi | th assessment sites clearly labeled. Mark |
| any other items that may be of interest. | |
| II. Subegmentation (fill this section out only in cases who | ere subesomentation is being proposed) |
| LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTIO | N, IN METERS) |
| Upstream Coordinates: | Downstream Coordinates: |
| UTM X HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the lo | UTM X Y |
| Global Positioning System (GPS) | Interpolation |
| Static Mode | Topographic Map or DRG |
| Dynamic Mode (Kinematic) | Aerial Photograph or DOQQ |
| Precise Positioning Service | Satellite Imagery |
| Signal Averaging | Interpolation Other |
| Real Time Differential Processing | |
| HORIZONTAL ACCURACY ESTIMATE GPS Data Quality | Internal of ion Date Quality |
| | Interpolation Data Quality Source Map Scale: 1:24,000 1:100,000 Other |
| EPE | Source Map Scale: 1.24,000 1:100,000 Other |
| PDOP I I I I I I I I I I I I I I I I I I I | ±Feet or ±Meters |
| III. Discharger Facility Information (list all permitted discharge) | The state of the s |
| | |
| Discharger Facility Name(s): Clevel and Discharger Permit Number(s): MO01126 | 23 |
| IV. UAA Surveyor (please print legibly) | |
| | Telephone Number: 816-363-2696 |
| Organization/Employers Buil | |
| Position: Emmannental Ses | |
| | |
| Please verify that you have completed all sections, check complete. | ted all applicable boxes and that everything is |
| | |
| Signed: The following | Date: Mall, last- |
| February 5, 2007 | Page 22 |





Tributary to Massey Creek WBID #1268



| WBID# 268 Site# | | Fie | ld Data Da | ata She | et E | 3 - Site | Charac | terizat | <i>m Surveys</i> ion | | |
|--|----------------|----------------|---------------|-----------------|--|------------------------|--|-----------------|-------------------------|-------------------|--|
| Date & Time: M | ay 2 | 2.200 | 7 2 | (musi PM | t be d | Site Loc | eation Desc | ription (e | g., road crossing): | | |
| Personnel (Data Col | 27 | | Drialse | | , hn | - Po | sunsta | 25 | Enolge | constaga offen | |
| Current Weather Co | | et et | unns | arry to | OSES). | Facility | Name: / | 7 10 11 | cland | * | |
| Weather Conditions | for Pas | | 62 | VIII. | | | Number: | 100 | Cland | 7- | |
| | | | 10/4 | 3 32 19 1077 | nal an | 20 | | 100 | 011100- | <u> </u> | |
| Drought Conditions? Site Locations: | ; NO 0 | rought | Phase I L | 」; Phase I. | I Ц; I | Phase III 🗀 | ; Phase IV | □; Unkn | own 🗆 | | |
| LOCATION COORDINA | ATES (U | NIVERSAL | TRANSVE | RSE MERCA | ATOR I | PROJECTION | I, IN METER | s) : | | | |
| Site GPS Coordina | ates: U | TM X: | 094. | ,593 | 17 | -W | Y: 38 | .67 | 172N | | |
| HORIZONTAL COLLE | CIONI | WETHOD (| ndicate the n | nethod used | to dete | ermine the lo | cational data. | | | | |
| Static Mode | Global | Positionir | g System (| GPS) | | | Topograph | ic Map or D | Interpolat | ion | |
| Dynamic Mode (Kinema | tic) | | | | | | | ograph or E | | | |
| Precise Positioning Sen | rice | | | | | | Satellite Im | | | | |
| Signal Averaging | | | | | | | Interpolation | n Other | 75 | | |
| Real Time Differential P | | - | | | | | | | N.S | | |
| HORIZONTAL ACCURA | CY ES | | | 是特殊 | 70 | 世界数二化设 | 400000 | 表稿法:: | 14年表现。 | | |
| | | GPS Dat | a Quality | | - | | | | Interpolation Dat | | |
| FOM | ±_ | | Meters | Laboration | | | Sour | re Man Sca | lo: 1:24 000 1:100 (| 000 04 | |
| EPE | ± | 96 F | eet or ±_ | Me | eters | | Source Map Scale: 1:24,000 1:100,000 Other | | | | |
| PDOP | | | | | | | | ±_ | Feet or ±_ | Meters | |
| Photos: | | | | | | | | | | | |
| Upstre | am Ph | otos | | | D | Downstream Photos | | | | Other Photos | |
| Photo ID# | Pho | oto Purpo | se | Photo ID# Photo | | hoto Purpose Photo ID# | | Photo ID# | Photo Purpose | | |
| | | | | | | | 20 32 300 431 602 | | | | |
| Uses Observed*: (| Uses : | actually | observe | d at tim | e of | survey.) | · · · · · · · · · · · · · · · · · · · | | L | | |
| ☐ Swimming | | ☐ Skii | n diving | Г | 1 sci | UBA diving | , | ☐ Tubi | nœ | | |
| ☐ Wind surfing | | ☐ Kay | | | | 5 | The second second | | ☐ Water skiing | | |
| | | | | ☐ Boating | | | □ Wad | | Rafting | | |
| Describe: (Include no | mher c | Trap | oping | <u> </u> | ☐ Fishing ☐ None of the above photo-documentation of evidence of recreational uses, etc. Use | | | ☐ Other: | | | |
| OSC MICH VICE WITCH | onduc | ing mer | iews.) | | | | | | | , T | |
| Surrounding Condunusual items of inter | ition est.) | s*: (Ma | rk all tha | t promot | te or | impede re | ecreationa | ıl uses. A | Attach photos o | f evidence or | |
| ☐ City/county parks | 8 | ☐ Play | grounds | | C cons | nservation lands Urba | | □ Urba | n areas | ☐ Campgrounds | |
| ☐ Boating accesses | ANDRESS T | ☐ State | e parks | ☐ Nati | ional f | forests | 78 | ☐ Nature trails | | ☐ Stairs/walkway | |
| ☐ No trespass sign | | □ Fend | e | ☐ Stee | p slop | oes | 780 | None | of the above | ☐ Other: | |
| Comments: | | | | | | | | | | | |
| ndications of Hum | an U | se*: (a | tach pho | otos) | | | | | | | |
| □ Roads □ | Rope s | wings | ☐ Foot | paths/print | ts | □ Dock/pl | latform | □ Liv | estock Watering | □ RV / ATV Tracks | |
| ☐ Camping Sites Comments: | | | ☐ Fire p | it/ring | | □ NPDES | Discharge | | hing Tackle | ☐ Other: | |

| iet | | | | | | Channe | 1 Featu |
|---|---|--------------------------------------|---|---|--------------------------------|--|-----------------------------|
| | | | | | | RUN: 8 | 5072 |
| * Page Two – Data | a Shoot R for WI | NTD # | 1268 . CA | Le 1 | | RIFFLE! | 1007 |
| Stream Morpholo | | שרות #_ | 100:11 | (| | POOL: | 10 16 |
| | s Physical Dimens | ions: I | s there any water | present at | this view? | | 9/0 |
| | | | If so, is there an o | | | ☐ Yes ☐ No | |
| Select one of the | following channel | | | ovious cu | Henri | LIES LINO | |
| Channel Feature | Distance from acc | | Width (m) | Lengtl | ı (m) | Median Depth (m) | Max. Depth (m) |
| RIFFLE | | | | | | | |
| RUN | | | | | | | |
| POOL | | | | | | | |
| | | | | | | | |
| Downstream Vie | ew's Physical Dim | ensions | : Is there any wa | ter present | t at this vie | ew? □ Yes □ No | |
| | | | If so, is there ar | obvious | current? | ☐ Yes ☐ No |) |
| | following channe | | | | | | |
| Channel Feature RIFFLE | Distance from acc | ess (m) | Width (m) | Lengt | h (m) | Median Depth (m) | Max. Depth (m) |
| RUN | | | | | | | |
| POOL | | | | | | | |
| Substrate*: (Thes | e values should add u | in to 100 |)%.) | | | | |
| 25 % Cobb | | | % Sand | | % Silt | % Mud/Clay | 75 % Bedro |
| Aquatic Vegetation | | | ation of digdi grown | Tat the assi | ossinont sid | 5) | |
| Water Character | istics*: (Mark all tl | nat apply | y.) | | | 21 25-09 | |
| Odor: | ☐ Sewage | ☐ Mus | ky | ical | None | ☐ Other: | |
| Color: | Clear | ☐ Gree | en 🗆 Gray | 28 | ☐ Milky | ☐ Other: | |
| Bottom Deposit: | ☐ Sludge | □ Soli | ds | sediments | None | ☐ Other: | |
| Surface Deposit: | □ Oil | □ Scur | m □ Foam | | None | ☐ Other: | |
| comprehensive undersidecision on the recrea | not to be used solely istanding of water contion use analysis but | for remonditions. may point d all se | eval of a recreational Consequently, this int to conditions that continues, checked a | l use design information t need furth | on is not into ner analysis | rather is to provide a more rended to directly influe s or that effect another war and that everything | ence a use. g is complete. |
| Surveyor's Signatur | e: Hilly P | 1- Desch | Wall Stage | Date | of Surve | y: 5/22/or Earl SEF | |
| Organization: | Libert | Real Control | | _ Positio | n: | CARL DEF | |

| | Distance from | Depth | Rank | Assigned Rank | Sorted depth |
|--------|---------------|------------|--|-----------------|--------------|
| 10 | Stream edge | | Vertice to the second s | 1 ISSIGNED RAIL | Sorted depth |
| iect A | wetled width | <0.1m | | 1 Channeltea | hisa : |
| 2 | 4.8 m | 11 0.2m | | 2 | MIRE . |
| 3 | | 0,2m | | 3 | |
| 4 | measurements | 0.31 | | 4 Dissolved O | Burnen |
| 5 | 0.90 m | 0.30 | | 5 | JJerc |
| 6 | apart | 0.2m | | 6 8.1 | nna |
| 9 | | 0.20 | | 7 8/ | ppn |
| 8 | | D. 2m | | 8 | |
| , t | | o. Um | | 9 | |
| 10 | | < DI III | | 10 | |
| 0 | | <i>â</i> / | | 11 | |
| 1 8 / | wetted width | < Oilm | | 12 Channel | Teature: |
| 3 | JU M | 0.1n | | 13 Run | 1 |
| 4 | 200 0 le ve | g./m | | 14 | |
| 5 | measurements | 0.10 | | 15 Dissolved | Oxygen: |
| | | 5.11 | | 16 | JU |
| 9 | appart | 0.10 | | 17 8.2 | ppm |
| 9 | | 0. /m | | 18 82 | 7 |
| 9 | | 0.1m | | 19 | |
| 10 | 1- | 0.10 | | 20 | |
| | | | | 22 | |
| dC 1 | wetted width | . CO-1m | | 23 Channel F | 2-6-21 |
| -2 | 4.0 m | <0.1m | | 24 PM | eatife: |
| 3 | | O.In | | 25 | |
| 9 | measurements | 0.1n | | 26 Dissolved | Ocuses |
| 5 | 0.4 m | 0,2m | | | Jiger |
| 6 | apart | 0.2m | | 8.3 | pon |
| 7 | .0000 | 0.20 | | . 83 | 167 |
| 8 | | 0.10 | | n | |
| 1 | | 0.1m | | | |

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

| Signed: Amy M. lysolow | Date: 5/22/07 |
|------------------------|--------------------|
| Organization: BNR | Position: ENU. SEI |
| February 5, 2007 | 2000.34 |

| | Distance from | Depth | Rank | Assigned Rank | Sorted depth |
|---------------------|--|-------|------|--------------------|--------------|
| . 10 | Stream edge | | | Tablighed runn | Sorted deput |
| sect D ₁ | wetled width | Co.Im | | 1 Channeltga | bien . |
| 2 | 410 m | <0,1m | | 2 Eun | MIC. |
| 3 | | 0.lm | | 3 | 2 |
| 4 | measurements | o.ln | | 4 Dissolved O | Rupen |
| 5 | 0.4 m | O,Im | | 5 | J |
| 6 | apart | 0.lm | | 6 8.3 | nna |
| 7 | | 0.1m | | 7 83 | ppn |
| 8 | | 0. /m | | 8 | |
| | | 0.1m | | 9 | |
| lo | | <0.1m | | 10 | |
| | 11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1 | 11. | | 11 | |
| # EI | wetted width | <0.lm | | 12 Channel | Kahne: |
| 3 | | CO./m | | 13 RUN | |
| 4 | | o.lm | | 14 | |
| 5 | measurements | 0.11 | + | 15 Dissolved | Oxygen: |
| 72 | a a t | 0:2m | | 16 | JU |
| 67 | apart | 0.21 | | 11 8.5 | ppm |
| 9 | | 0.12 | | 18 25 | 7 |
| 9 | | D.(m | | 19 | |
| 10 | | <0.1m | | 20 | |
| | | 0,110 | | 21 | |
| 4 E1 | wetted width | COIM | | 22 23 Channel # | - |
| 4F1 | 15_m | 0,2m | | 24 | |
| 3 | | 0,3m | | 25 | 1 |
| 4 | measurements | 0.4m | | 26 Deschered | 00 |
| 5 | 0,3 m | O. In | | 26 Dissolved | Juggen |
| 6 | apart | 0.4m | | 81 | |
| 7 | • | 0.32 | | | Por |
| 8 | | D. In | | n | 6 |
| 9 | | O,lp | | | |
| 10 | | <0.1m | | | + |

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

| Signed: fm MR salm | Date: 5/22/04 |
|--------------------|------------------|
| Organization: BWR | Position: Eng Ca |
| February 5, 2007 | |

| | Distance from | Depth | Rank | Assigned Rank | Control J. II |
|-------|---------------|--------|------|---------------|---------------|
| 11 | Stream edge | | | Assigned Kank | Sorted depth |
| sect6 | wetled width | <0.lm | | 1 Channelta | 4 |
| 2 | 4.5 m | 0.21 | | 1 Channeltea | NII.e: |
| 2 | 7 | 0.3n | | 3 | 4 |
| 4 | realdrenens | 0.300 | | | 2 |
| 5 | 0.45m | 0-40 | | 4 Dissolved O | Nygen |
| 6 | apant | 0.5m | | 6 8.0 | |
| 7 | | 0.4m | | 7 80 | ppn |
| 8 | | 0. Qm | | 8 | 16 |
| 9 | | 0.1m | | 9 | |
| 10 | | <0.12 | | 10 | |
| | | | | 111 | |
| # H1 | wetted width | <0.1n | | 12 Channel | 7-1 |
| 2 | WM m | <0.m | | 13 PIPPI | Calule: |
| 3 | | <0.1m | | 14 | 4 |
| 4 | measurements | <0./n | | 15 Dissolves | 100 |
| 5 | 0.2 m | <0.1m | | 16 | Oxygen: |
| 67 | ayart | CO.In | | 17 8.6 | |
| | | <0.1m | | 18 80 | ppm |
| 9 | | 0.1n | | 19 | |
| 9 | | <0.1m | | 20 | |
| 10 | | <0.1m | | 21 | |
| | | | | 22 | |
| 4 I1 | wetted width | . 0./m | | 23 Channel F | entere: |
| | -5.5 m | 0.1m | | 24 | |
| 3 | | 012 | | 25 | |
| 4 | measurements | <0.11 | | 26 Dissolved | OKNOON |
| 5 | 0.55 m | 0.1m | | | 111 |
| 0 | apart | <0.1n | | 8.9 | DOM |
| 9 | | 0.lm | | . 34 | 16% |
| 6789 | | < O.lp | | n | |
| 10 | | <0,1m | | | |

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

| Signed: Am M. healow | Date: May 22, 2007 |
|----------------------|--------------------|
| Organization: BWR | Position: ENU ST |
| F-h 5 0005 | |

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

| | Distance from Stream edge | Depth | Rank | Assigned Rank | Sorted depth |
|---------|------------------------------|---------|------|---------------|--|
| sect I | wethed width | < 0./m | | 1 0/ | |
| 2 | 11/1/2011 | 8/2 | | 1 Channel Fea | rure: |
| 3 | 7.5 M | 0.11 | | 2 RUN | |
| 4 | | 0.11 | | 3 | |
| 100 | - "realurements | COIN | | 4 Dissolved O | xuaen |
| 5 | 0.48 m | = 0.1n | | 5 | 40 |
| 9 | apart | < 0. In | | 6 8.8 | nna |
| 0 | | 0.1p | | 7 88 | ppn |
| 8 | | 0.ln | | 8 | |
| • | | 0.M | | 9 | and the second second |
| lo | | O. M | | 10 | |
| | | | | 11 | |
| sed K-1 | wetted width | <0.1n | * | 12 Channel | Frederic . |
| 2 | | <0.1m | | 13 CUN | Carare. |
| 3 | | 0.1m | | 14 | |
| 4 | measurements | 0.11 | | | Dec. |
| 5 | 0.3 m | 0.ln | | 16 | Oxygen: |
| 6 | ajjant | 0.100 | | 17 9.2 | |
| フ | | 0.1m | | 18 92 | ppm |
| 9 | | 0.10 | | 19 | - 60 |
| 9 | | < 0.1m | | 20 | |
| 10 | 3 | (0.1n | | 21 | 1 |
| | | | | 22 | |
| ved L | wetted width | | | 23 Channel F | Balana i |
| -2 | m | | | 24 | canuse: |
| 3 | | | | 25 | |
| 4 | measurements | | | 26 Dissolved | Or. |
| 5 | | | | 20 DISSBIVED | Ukiger |
| 6 | apart | | | | Wasse William |
| 7 | | | | 1 | Pon |
| 8 | | | | n | 6 |
| 9 | | | | n | 1 |
| 10 | | 0 1 | | ++ | |

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

| Signed: fr. M. Bealos | Date: 5/22/87 |
|-----------------------|-------------------|
| Organization: BUR | Position: ENV. Sc |
| February 5, 2007 | 30.50 |

| WB Site | BID# D6 | 8_ | Field Data | Shee | ts for F | Recreati 3 - Site | onal Us | e Strea | m Surveys | | |
|------------|--|----------------|----------------------|----------|-------------|----------------------|--|--|--|-----------------------|------|
| | | | , | | | completed | | | ion | | |
| Γ | Data & Times | 11 00 | 7.1 | (111 | ust be c | | | | National Control of the Control of t | | |
| | Date & Time: Mar 22, 2007 | | | | | | | g., road crossing): | | | |
| | Personnel (Data Collectors): Amy Dialowski, John | | | | Pou | insheam | of b | adjust of | Dagect | | |
| | Current Weathe | r Condition | s: Sunny | | 0 | Facility | Name: (| Clev | eland | | |
| | Weather Condit | ions for Pas | t 10 days: Run | 48 hore | 1 ans | Permit 1 | Number: | MO | 01112 | 187 | |
| 1 | Drought Conditi | ions?: No d | rought 🗹: Phase I [| ☐: Phas | se II 🗆 : P | Phase III | · Phase IV | □: Unkn | own [] | | |
| Sit | te Locations | : | | | | nase III 🗀 | , I Hase I v | L, Chan | OWII 🗀 | | - |
| | LOCATION COOR | DINATES (U | NIVERSAL TRANSVE | RSE MEI | RCATOR P | ROJECTION | L IN METER | SF | | Control of the second | 9-10 |
| | Site GPS Coordinates: UTM X: 094,57340 W Y: 38.67474 N | | | | | | | | | | |
| F | HORIZONTAL CO | DLLECTION I | METHOD (Indicate the | method u | sed to dete | ermine the lo | cational data. | | | | |
| - | Dietie Mande | Global | Positioning System | (GPS) | | | Interpolation | | | | _ |
| F | Static Mode Dynamic Mode (Ki | nomatic) | | | | | Topographic Map or DRG | | | | |
| t | Precise Positioning | | | 17 | | | Aerial Photograph or DOQQ | | | | |
| t | Signal Averaging | y del vide | WHEN THE TRANSPORT | | | <u> </u> | Satellite Imagery Interpolation Other | | | | |
| Ī | Real Time Differen | tial Processin | a | | | | interpolation other | | | | |
| F | | | | | Y 1 1 1 1 | M CLEVALORS | 400000000000000000000000000000000000000 | PE 45-3487-3 | | | - |
| | | | GPS Data Quality | 4.5 | | | THE STREET AND A | H-11-11-11-11-11-11-11-11-11-11-11-11-11 | Interpolation Da | | O.C. |
| Ī | FOM | ± | Meters | | | | | | interpolation Da | ta Quality | |
| | EPE | | 26 Feet or ± | | Meters | | Source Map Scale: 1:24,000 1:100,000 Other | | | | |
| | PDOP | | | | | ±Feet or ±Meters | | | | Meters | |
| Pho | otos: | | | | | | | | | | |
| | U | pstream Ph | otos | | De | ownstream | Photos | | | Other Photos | |
| | Photo ID# | Pho | oto Purpose | Photo | ID# | Pl | noto Purpos | se | Photo ID# | Photo Purpose | _ |
| | -1 | Us | 0 | 2 | - | do | us | | | · · | |
| Use | es Observed | *: (Uses : | actually observe | ed at t | ime of s | survey.) | | | | | 110 |
| | ☐ Swimming | | ☐ Skin diving | | De Cole | UBA divin | 3 | ☐ Tubi | ng | ☐ Water skiing | |

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

☐ Boating

☐ Fishing

| | | | ☐ Urban areas | ☐ Campgrounds |
|--------------------|---------------|--------------------|---------------------|------------------|
| ☐ Boating accesses | ☐ State parks | ☐ National forests | ☐ Nature trails | ☐ Stairs/walkway |
| ☐ No trespass sign | ☐ Fence | ☑ Steep slopes | ☐ None of the above | Other: |

Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational

☐ Wading

None of the above

Use Interview when conducting interviews.)

☐ Kayaking

☐ Trapping

| ATV Tracks | □ RV / ATV Tra | ☐ Livestock Watering | ☐ Dock/platform | ☐ Foot paths/prints | ☐ Rope swings | Roads |
|------------|----------------|----------------------|-------------------|---------------------|---------------------------|-------|
| r: | ☐ Other: | ☐ Fishing Tackle | ☐ NPDES Discharge | ☐ Fire pit/ring | ☐ Camping Sites | |
| r: | ☐ Other: | ☐ Fishing Tackle | ☐ NPDES Discharge | ☐ Fire pit/ring | ☐ Camping Sites Comments: | |

 \square Wind surfing

☐ Hunting

☐ Rafting

☐ Other:

| | | | | Channel. | teature | | |
|-----------------------|---|---------------------|---|--------------------------|----------------|--|--|
| * | | | | RUN: 8 | 007 | | |
| * Do == T D-4 | CL ADE WOID | 1210 | 11 - | RUN: 8 RIFFLE: | 100 | | |
| Stream Morpholo | * Page Two – Data Sheet B for WBID # 1268: Site 2 RIFFLE: 10% POOL: 10% | | | | | | |
| Upstream View | 's Physical Dimensions: | Is there any water | nresent at this view | v? □ Yes □ No | 0 10 | | |
| | | If so, is there and | | | | | |
| Select one of the | e following channel featu | | obvious current? | ☐ Yes ☐ No | | | |
| Channel Feature | Distance from access (m) | | Length (m) | Median Depth (m) | Max. Depth (m) | | |
| RIFFLE | | | | | 1 | | |
| RUN POOL | | | | | | | |
| LLOOF | | | | | | | |
| | ew's Physical Dimension following channel featu | If so, is there as | ter present at this v n obvious current? | iew? □ Yes □ No | | | |
| Channel Feature | Distance from access (m) | Width (m) | Length (m) | Median Depth (m) | Max. Depth (m) | | |
| RIFFLE | | | | | | | |
| RUN POOL | | | | | | | |
| | 1 1 11 11 10 | | | | | | |
| // % Cobb | e values should add up to 10 | 0%.) % Sand | % Silt | % Mud/Clay | 90 % Bedroo | | |
| Macrophyto, | > | | | ø | | | |
| Water Character | istics*: (Mark all that apply | y.) | | | | | |
| Odor: | ☐ Sewage ☐ Mus | sky 🗆 Chem | ical None | ☐ Other: | | | |
| Color: | □ Clear □ Cree | en 🗆 Gray | × × | | | | |
| Bottom Deposit: | ☐ Sludge ☐ Soli | ds | ediments None | ☐ Other: | | | |
| Surface Deposit: | □ Oil □ Scur | m 🗆 Foam | None | ☐ Other: | | | |
| Comments: Please | e attach any additional c | comments () to th | is form. | | V | | |
| comprehensive underst | ot to be used solely for remo tanding of water conditions. ion use analysis but may poi | Consequently, this | information is not int | ended to directly influe | nce a | | |
| Please verify that ye | ou have completed all se | ctions, checked al | l applicable boxes | and that everything | g is complete. | | |
| Surveyor's Signature | Buse | alauk | Date of Survey | 1. 5/22/07 | | | |
| Organization: | Buile | | Position: <u>En</u> | V. SEZ | 9 | | |

| | Distance from | Depth | Rank | Assigned Rank | Sorted depth |
|-------|------------------|---------|-------|---------------|--|
| ectA1 | Stream edge | | | | Sorted deput |
| 1 | 3 | €O.IM | | 1 Channelfer | obica: |
| 2 | 5.5 m | 0.lm | | 2 EUN | gare. |
| 3 | | 0.lm | | 3 | |
| | - PORIGICAL COLL | 0.1m | | 4 Dissolved C | 2 |
| 56 | 0.58 m | 0.1m | | 5 | xygen |
| 6 | apant | 0.1m | | 6 12,2 | |
| 7 | | < o.la | | 7 | pon |
| 8 | | 0.lm | | 8 | 16 |
| | | DIA | | 9 | |
| 10 | | CO.lm | | 10 | |
| | | | | 111 | |
| 1B1 | wetted width | <0.1m | 0.000 | | Feature: |
| 12 | 65 m | 0.11 | | 13 Run | rainte: |
| 3 | | 0.2m | | 14 | |
| 4 | measurements | O.Zin | | | 1 1000000 |
| 5 | 0.60 m | 0.2m | | 16 | Oxygen: |
| 67 | apart | 0. Jm | | 17 //.8 | 200 |
| - 62 | | Diem | | 18 //8 | ppm |
| 9 | | 0.2m | 3 | 19 | 10 |
| 9 | | * 0. In | | 20 | |
| 10 | | 0.1n | | 21 | |
| , | | - 1 | | 22 | |
| 1 CS | weffed width | 0.1m | | 23 Channel | Peaking: |
| 2 | -013 m | 0.lm | | 24 RUN | |
| 3 | | o.un | | 25 | |
| | measurements | 0.2m | | 26 Dissolved | OKAgen |
| 5 | | 0. In | | | 33 |
| 7 | apart | O. Un | | . 11.7 | pan |
| 8 | | O.Ch | | | 16% |
| 6789 | | 0. IR | | n | |
| 10 | | <0.1m | | | |

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

| Signed: Am. M. Gulas | Date: 5/22/07- |
|----------------------|--------------------|
| Organization: BWR | Position: Two. SCI |
| February 5, 2007 | Totalia. |

| | Distance from | Depth | Rank | Assigned Rank | Sorted depth |
|---------|----------------|----------|------|---------------|--------------|
| | Stream edge | | | Bried Halik | Sorted deput |
| nsectD1 | welled width | <0,1m | | 1 Channeltea | 4 |
| 2 | 8.0 m | <0,1m | | 2 RIPHE | 1700 |
| 2 | | 0. lm | | 3 | 1700 |
| 4 | regulaterients | < 0.1h | | 4 Dissolved O | 2 |
| 5 | 0.8 m | <0. lm | | 5 | ygen |
| 6 | apant | <0.1m | | 6 //./ | |
| 7 | | <0.1m | | 7 | pon |
| 8 | н | CO.lm | | 8 | 10 |
| 9 | | < n. lyn | | 9 | |
| 10 | | < D. la | | 10 | |
| | | | | 111 | |
| a E ! | wetted width | <0.1m | | 12 Channel | |
| 2 | | <0.1m | | 13 PIFF | Calule: |
| 3 | | <0.10 | | 14 | 10 |
| 4 | measurements | <0.1m | | | December |
| 5 | 0.60 m | <0.1m | | 16 | Oxygen: |
| 67 | appart | <0.1m | | 17 /3./ | ppm |
| | • | <0.lm | | 18 | 12 |
| 9 | | <0.ln | | 19 | 10 |
| 9 | <u> </u> | <0.1m | | 20 | |
| 10 | - | COIM | | 21 | |
| | | | | 22 | |
| ed F1 | weffed width | | | 23 Channel 7 | eatere: |
| | -012-m | colm | | 24 EUN | 1 |
| 3 | | <0.1m | | 25 | N N |
| | measurements | <0.1m | | 26 Dissolved | Okagen. |
| 56 | | <0.1m | | | J. |
| 7 | apart | #100.4m | | . 13.2 | an |
| 8 | | <0.1m | | | 16% |
| 9 | | 0.10 | 387 | n | |
| 10 | | Oilh | | | |
| :0 | | <0.1m | | -2. | ∜ |

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| Signed: Am M. Refered | Date: 5/22/07 |
|-----------------------|---------------------|
| Organization: BNR | Position: ENV. SCI. |
| February 5 2007 | |

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

| | Distance from | Depth | Rank | Assigned Rank | Sorted depth |
|-------------|---------------|---------|--|----------------|--------------|
| 10 | Stream edge | 4 | 19900 | Brief Tunik | Sorted deput |
| nsect61 | wetled width | CO./p | | 1 Channelteg | hisa : |
| 2 | 5.5 m | <0.1m | | 2 RUN | MIE: |
| 3 | | <0.W | | 2 | |
| 4 | measurements | <0.1m | | 4 Dissolved O | 2 |
| 56 | 1.55 m | <0.1n | | 4 Dissolved Of | ygen |
| 6 | apart | 0.11 | | 6 15.0 | |
| 7 | | 0.1m | | 7 100 | ppn |
| 8 | | 0.1m | | 8 | 16 |
| | | # 0. In | | 9 | |
| 10 | | 0.20 | No. 10 No | 10 | |
| | | | | 111 | |
| ied H1 | wetted width | <0.1m | | 12 Channel | To do |
| 2 | 80 m | oulm | | 13 Run | calufe: |
| 3 | | s.lm | | 14 | CART C. P. |
| 4 | measurements | 0. Im | | 15 Dissolved | December |
| 5 | 0.8 m | 0.11 | | 16 | Oxygen: |
| 67 | appart | 0. In | | 17 12.3 | anm |
| | | 0.1m | | 18 /20 | ppm |
| 9 | | 0. M | | 19 | - 60 |
| 9 | | < 0.1m | | 20 | |
| 10 | | COIM | | 21 | |
| | | | | 22 | |
| ved I_2^1 | wetted width | | | 23 Channel F | entere: |
| | - MS - M | COIM | | 24 RUN | 11/2/ |
| 3 | | 0.1 pr | | 25 | |
| 70 mm | measurements | 0,1p | | 26 Dissolved | Okugen |
| 5 | 0.65 m | Odn | | | 77 |
| 6 | apart | 0.10 | | 62.5 | pan |
| 9 | | 0,lm | | . 120 | 16% |
| 7 8 9 | | 0. lm | | n | |
| - | | 0. lm | | | |
| 10 | | <0./m | | | |

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If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

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| Signed: Am M. Proplant | Date: 5/12/07 |
|------------------------|--------------------|
| Organization: BWR | Position: FNV. SCT |
| February 5, 2007 | 100 · Safer, |

| | Distance from | Depth | Rank | Assigned Rank | Sorted depth |
|-------------|---------------|--------|-------------|----------------|---|
| sect 5 | Stream edge | | - 10 o 2000 | Table Tunk | Sorted depth |
| Ject > | Wethed width | 60.1 n | | 1 Channeltea | 6.50 |
| 2 | 18 m | 0.2m | | 2 Dry | MIE: |
| 2 | | 0.2m | | 3 | |
| 4 | measurements | 0. 2m | | 4 Dissolved Of | 2 |
| 5 | 1.0 m | 0.21 | | 5 | ygen |
| 6 | apant | 0.2n | | 6 /1.3 | |
| 7 | | 0.2n | | 7 | pon |
| 8 | | 0.2m | | 8 | 16 |
| | | 0.20 | | 9 | |
| 10 | | 0.10 | | 10 | |
| | | | | 11 | |
| sed VI | wetled width | <0.1m | | 12 Channel | T-6 |
| 2 | 7.5 m | 0.1n | | 13 Pi | carye: |
| 3 | | 0.2n | | 14 | |
| 4 | measurements | 0.3m | | 15 Dissolved | December |
| 5 | -0.75 m | 0.4m | | 16 | Oxygen: |
| 67 | apart | 0.30 | | 17 10.4 | 2000 |
| | | 0.3n | | 18 /00 | ppm |
| 9 | | 0.21 | | 19 | 10 |
| 9 | | 0. DA | | 20 | |
| 10 | | 8.1M | | 21 | 100000000000000000000000000000000000000 |
| 0 | | | | 22 | |
| nied 1 | Wetted width | | | 23 Channel F | eatere: |
| | | | | 24 | 1,0,0 |
| 3 | | | _ | 25 | |
| 7 | measurements | | | 26 Dissolved | Okagen |
| 6 | m | | | | JJ |
| 11(3)(3), 3 | apart | | | | oon |
| 7 | | | | | 167 |
| 9 | | | | n | |
| , | | | | | |
| 10 | | | | | |

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

| Signed: Amy M. hystorial | Date: Man 27, 200 for |
|--------------------------|-----------------------|
| Organization: BUR | Position: Env. Sei |
| February 5, 2007 | |

| WBID# | 12-68 |
|--------|-------|
| Site#_ | 3 |

Field Data Sheets for Recreational Use Stream Surveys Data Sheet B - Site Characterization

(must be completed for each site) Site Location Description (e.g., road crossing): Date & Time: upstream from crossing of Gook Road Personnel (Data Collectors): Avan Current Weather Conditions: Facility Name: Weather Conditions for Past 10 days: Permit Number: Drought Conditions?: No drought \(\overline{\pi}\); Phase II \(\overline{\pi}\); Phase III \(\overline{\pi}\); Phase IV \(\overline{\pi}\); Unknown \(\overline{\pi}\) Site Locations: LOCATION COORDINATES (UNIVERSAL TRANSVERSE MERCATOR PROJECTION, IN METERS) Site GPS Coordinates: UTM X: 094,54128 W HORIZONTAL COLLECTION METHOD (Indicate the method used to determine the locational data.) Global Positioning System (GPS) Interpolation Static Mode Topographic Map or DRG Dynamic Mode (Kinematic) Aerial Photograph or DOQQ Precise Positioning Service Satellite Imagery Signal Averaging Interpolation Other Real Time Differential Processing HORIZONTAL ACCURACY ESTIMATE **GPS Data Quality** Interpolation Data Quality FOM Meters Source Map Scale: 1:24,000 1:100,000 Other EPE Feet or ± Meters Feet or ± PDOP Photos: Upstream Photos Downstream Photos Other Photos Photo ID# Photo ID# Photo Purpose Photo Purpose Photo ID# Photo Purpose down Uses Observed*: (Uses actually observed at time of survey.) ☐ Skin diving ☐ Swimming ☐ SCUBA diving ☐ Tubing ☐ Water skiing ☐ Wind surfing ☐ Kayaking ☐ Boating ☐ Wading ☐ Rafting ☐ Hunting ☐ Trapping ☐ Fishing None of the above ☐ Other: Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.) Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.) ☐ City/county parks ☐ Playgrounds ☐ MDC conservation lands ☐ Urban areas ☐ Campgrounds ☐ Boating accesses ☐ State parks ☐ National forests ☐ Stairs/walkway ☐ Nature trails ☐ No trespass sign ☐ Fence ☐ Steep slopes None of the above ☐ Other: Comments: Indications of Human Use*: (attach photos) ☐ Roads ☐ Rope swings ☐ Foot paths/prints ☐ Dock/platform ☐ Livestock Watering □ RV / ATV Tracks ☐ Camping Sites ☐ Fire pit/ring ☐ Fishing Tackle ☐ NPDES Discharge Other: Comments:

| | | | | | | hanrel | Feature |
|---|---|--|--|------------------------------|--|--|-------------------|
| * Page Two – Dat Stream Morpholo | a Sheet B for ogy: | WBID #_ | 1268:51 | H 3 | , | RUN: 80 RIFFLE: POOL: | 15070 |
| Upstream View | 's Physical Din | nensions: Is | s there any water | present a | nt this view | ? □ Yes □ No | |
| | | | If so, is there an o | bvious c | urrent? | ☐ Yes ☐ N | 0 |
| Select one of the Channel Feature | following cha | nnel featur | | | - Service - Constitution - | | 501 |
| RIFFLE | Distance from | n access (m) | Width (m) | Leng | gth (m) | Median Depth (m) | Max. Depth (m) |
| RUN | | | | | | | |
| POOL | | | | | | | |
| Select one of the | following cha | nnel featur | If so, is there ares: | | | ew? | No No |
| Channel Feature RIFFLE | Distance from | n access (m) | Width (m) | Leng | gth (m) | Median Depth (m) | Max. Depth (m) |
| RUN | | | | | | | |
| POOL | | | | | | | - |
| Substrate*: (These | e values should a | dd up to 1009 | %,) | | | | |
| % Cobb | | Gravel | % Sand | | % Silt | 100 % Mud/Clay | % Bedroo |
| Aquatic Vegetation | | | | | | | |
| Water Characteri | stics*: (Mark a | ll that apply. |) | | | The same of | |
| Odor: | ☐ Sewage | ☐ Musk | | cal | None | ☐ Other: | |
| Color: | Clear | ☐ Green | □ Gray | | ☐ Milky | ☐ Other: | |
| Bottom Deposit: | ☐ Sludge | Solids | s □ Fine se | diments | None | ☐ Other: | |
| Surface Deposit: | □ Oil | ☐ Scum | ☐ Foam | | None | ☐ Other: | |
| *This information is no comprehensive underst decision on the recreated Please verify that you Surveyor's Signature Organization: | of to be used sole anding of water ion use analysis b ou have comple | ly for remova conditions. Cout may point eted all sect | al of a recreational Consequently, this i to conditions that tions, checked all | use designformationeed furth | on is not intender analysis ble boxes | nded to directly infl or that effect anothe | uence a r use. |
| | | | | | 10 | S | |

| | istance from | Depth | Rank | Also I | Assi | gned Rank | Control do 4 |
|-----------|--------------|---------|---------|--|--------|-------------|--|
| | tream edge | 0. | | | 1 1331 | Bried Kalik | Sorted depth |
| ect A I M | letted width | <0,1 m | | | 1 C | hannelFea | bus : |
| 2 | 4.0 m | 60.2m | | | 2 | PUNI | MIE. |
| 2 | | 0.2 m | | | 3 | 100/10 | |
| 4 | measurements | 0.3n | | | 4 D | issolved O | 2000 |
| 5 | -0.4 m | D.3m | | | 5 | 330/3 (4) 0 | Jyen . |
| 6 | apant | 0.2n | | | 6 | 9.0 | ppn |
| | | 0,20 | | | 7 | 90 | 127 |
| 8 | | 0. Zn | | -American | 8 | | 18 |
| | | 0.10 | | | 9 | | |
| 10 | | < 0.1m | | | 10 | | |
| | | | | | 11 | | |
| 1811 | vetted width | <0.1m | | | 12 (| hannel, | Kahne. |
| 2 | JAM | D. Im | | | 13 | RUN | |
| 3 | | 0.1m | | ×200 | 14 | | |
| 4_ | measurements | 0.2m | | | 15 | Dissolved | Oxugen: |
| 5 | -0.0 m | 0.1/1 | | | 16 | | Oxygen: |
| 9 | apart | 0.10 | | | 17 | 8.5 | |
| 9 | | 0. In | | | 18 | 85 | ppm |
| 9 | | -0. In | | No. of the last of | 19 | | B |
| 10 | | CD.Im | | | 20 | | |
| | | CO-VIC | | | 21 | | |
| tCIU | vetted width | . <0.1m | | | 22 | -/- |) |
| 2 | 3.5 m | X m | | | 23 (| Channel F | eatire: |
| 3 | <i></i> | 0.1m | V | | 24 | Kim | t t |
| 3 | neasurements | 0.11 | P | A STATE OF THE STA | 25 | × / 4 | <u> </u> |
| 5 | 0.35 m | O. In | | | 26 / | Dissolved | Okygen |
| 6 | apart | 0.100 | | SP STATE | • | | |
| 7 | | 0.1m | | * 15 THE THE R | • | 8.3 | pon |
| 8 | Y | 0.1n | 1 / / · | Yes (1900) | n | | 10 |
| 9 | | 0.1m | | - | n | | - |
| 10 | | <0.1n | | 77 | | | + |

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

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| I, the undersigned, hereby affirm to the best of my datasheet is true and accurate. | knowledge, t | hat all information | reported on this UAA |
|---|--------------|---------------------|----------------------|
| Signed: Amy M. hystard | Date: | 5/21/2 | £1. |

Position: DNU Sext

February 5, 2007

Organization:

| 1 Weth 2 3 4 me 5 6 7 8 9 10 1 2 3 4 me 5 7 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10 | medge Id width A width A width A part A width A part | Ochr | 3 4 Dissolved 5 6 8.9 7 8 9 10 11 12 Channe 13 (H) | Sorted depth Tearline: TOxygen Toxygen Toxygen Toxygen Toxygen Toxygen: |
|---|--|--|--|--|
| 2 3 4 me 5 67 8 9 10 15 67 8 9 | ed width | Ochr | 3 4 Dissolved 5 6 8.9 7 8 9 10 11 12 Channe 13 (H) | Oxygen ppn 7. |
| 4 me 5 6 7 8 9 10 . | ed width | 0.1m 0.1m 0.1m 0.1m 0.1m 0.1m 0.1m 0.1m 0.1m 0.1m | 3 4 Dissolved 5 6 8.9 7 8 9 10 11 12 Channe 13 (H) | Oxygen ppn To |
| 4 me 5 6 7 8 9 10 E1 wet 2 3 4 ms 5 6 7 9 9 | ed width | 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 | 4 Dissalved 5 6 8.9 7 8 9 10 11 12 Channe 13 (H) | ppn - 76 |
| 5 6 7 8 9 10 E1 Wet 2 3 4 may 5 6 7 8 9 | ed width | 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 | 5 6 8.9 7 8 9 10 11 12 Channe 13 Clt | ppn - 7. |
| 7 8 9 10 E1 wet 2 3 4 ma 5 6 7 9 | ed width | 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 | 5 6 8.9 7 8 9 10 11 12 Channe 13 Clt | ppn - 7. |
| 7 8 9 10 E1 wet 2 3 4 ma 5 6 7 9 | ed width | 0.lm 0.lm 0.lm 0.lm 0.lm 0.lm | 7 8 9 10 11 12 Channe 13 C(f) | A Feature: |
| 10 E1 wet 2 2 2 3 4 may 5 5 6 7 9 9 | easurements | 0.lm 0.lm 0.lm 0.lm 0.lm 0.lm | 8 9 10 11 12 Channe 13 Cf | A Feature: |
| 10 E1 wet 2 2 2 3 4 may 5 5 6 7 9 9 | easurements | 0.10 0.10 0.10 0.10 0.10 0.10 | 9 10 11 12 Channe 13 C(F) | A Feature: |
| 10 E1 wet 2 2 2 3 4 may 5 5 6 7 9 9 | easurements | 0.1m 0.1m 0.1m | 10 11 12 Channe 13 Cf | RE |
| E1 wet 2 1 3 4 mm 5 6 6 6 7 9 9 | easurements | 0.1m 0.1m 0.1m | 11 12 Channe 13 CH | RE |
| 2 / m 5 / m 5 / m 5 / m 5 / m 6 / m | easurements | 0.1m 0.1m 0.1m | 12 Channe 13 Ct | RE |
| 2 / m 5 / m 5 / m 5 / m 5 / m 6 / m | easurements | 0.1m 0.1m 0.1m | 13 K/F | RE |
| 4 mm 5 1 6 7 9 9 | 0.15 m | 0. lm 0. lm 0. lm | 13 KIF | RE |
| 4 mm 5 1 6 7 9 9 | 0.15 m | 0.1m | | ved Dxygen: |
| 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - | 0.15 m | D.11 | 15 Dissolu | ved Oxygen: |
| 679 | ayart | D.1A | 16 | to Aggere. |
| 9 | giart | | 16 | |
| 9 | 5/6 | 0.1m | 17 8-3 | |
| 9 | | 0.1n | 18 | ppm |
| | | 20.1m | 19 | 10 |
| | | 20,1h | 20 | |
| 10 | | <0.1m | 21 | |
| 15 1 10/01 | 1/2//// | < 1 / is | 22 | |
| FI WEA | ted width | - / | 23 Channe | l Feature: |
| | iv_m | 0.ln | 24 Ku | N |
| 3 4 men | 21 | 0.00 | 25 | ė |
| | Sucrents | 0. m 0.3n | 26 Dissolve | d Oxygen |
| 56 | apart | 0.32 | 1. | |
| | agari | - 11 | 1. 1.2 | - DOM |
| 7 8 | | 1. 4m | | 1/2 |
| 9 | | 1 20 | n | |
| 10 | | 010 | | |

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

| datasheet is true and a | reby affirm to the best of incommentation. | ny knowledge, that all in | formation r | eported on this UAA |
|-------------------------|--|---------------------------|-------------|---------------------|
| Signed: | M. Guland | 5/12 | 1- | El . |

Organization: BUR Position: PNV. SCE

February 5, 2007

| | Distance from | Depth | Rank | Assigned Rank | Sorted depth |
|---------|---------------|--------|--|----------------|--------------|
| sect 61 | Stream edge | | Mer | | Sorted deput |
| PECT OI | wethed width | <0,1m | | 1 Channeltea | hisa . |
| 2 | 2.0 m | 0,12 | | 2 Pun! | MITE. |
| 2 | | 0.2m | | 2 | |
| 4 | measurements | 0.2m | | 4 Dissolved O | 2 |
| 56 | 1.6 m | 0.2m | | 4 Dissolved Of | ygen |
| 6 | apart | D.In | | 6 8.4 | |
| 7 | | 0.10 | | 7 84 | ppn |
| 89 | | 0.1m | | 8 | 16 |
| | | 0.1m | | 9 | |
| lo | | COIM | | 10 | |
| . 1 | | | | 111 | |
| aH 1 | wetted width | < 0.12 | | 12 Channel | France : |
| 2 | 2.0 m | CO./M | | 13 RUN | Calare . |
| 3 | | < Oiln | | 14 | |
| 4 | measurements | Q./n | | 15 Dissolved | Oxygen: |
| 5 | 0.26 m | 0. ln | | 16 | Jugare. |
| 67 | apart | <0.1m | | 17 8.4 | nom |
| 9 | | 0.2n | | 18 | ppm |
| 9 | | 0.2m | | 19 | |
| 10 | /Alike | 0. In | | 20 | |
| 10 | | D. (n | | 21 | |
| 1-1 | welled width | 020 | | 22 | |
| dI1 | 60 | 0.7 | | 23 Channel F | eatere: |
| 80 1 | 3.0 m | 0.50 | The second secon | 24 FBC | |
| 3 | madine | 0. In | | 25 | 9 |
| 5 | measurements | 0.81 | | 26 Dissolved | Okyaen |
| 6 | apart | AD | | 1. | |
| 7 | apart | 0.8/2 | | . 8-4 | pon |
| 8 | | 0.80 | | | 10% |
| 9 | | 0.4 | | n | |
| 10 | | 0.1 | | | |

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

| Signed: Kmy M. Chyslowski | Date: 5/22/07 | |
|---------------------------|--|--------|
| Organization: BWK | Position: ENV. Sex | 100000 |
| February 5 2007 | - Collective Collectiv | |

| | Distance from | Depth | Rank | Assigned Rank | Sorted depth |
|----------|---|--------|--|-----------------|--------------|
| nsect 5 | Stream edge | node # | | 1 ISSIGNED RAIK | Sorted depth |
| ן ב זאנו | William William | 50,1m | | 1 Channel Fee | dies : |
| 2 | 4.0 m | 0.2m | | 2 PIN | CALLE: |
| | 7 | 0.2m | | 3 | |
| 4 | measurements | 0.71 | | 4 Dissolved C | 24400 |
| .5 | 0.4 n | 0.1m | | 5 | rygen |
| 6 | | 0. 2m | | 6 8.5 | 1000 |
| 7 | - | 0. Im | | 7 | ppn |
| 8 | | <0.1m | | 8 | 16 |
| | | 60.1n | | 9 | |
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If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

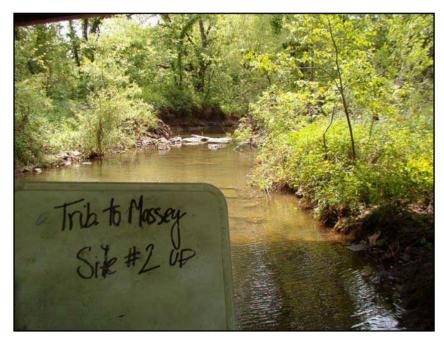
If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

| Signed: Amy M. healous | Date: May 27 2001 |
|------------------------|--------------------|
| Organization: BUR | Position: Env. SCT |
| February 5, 2007 | Tosition. Sivo SQ. |



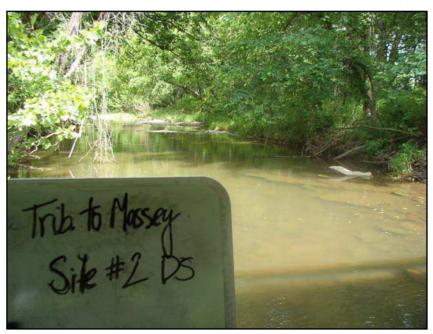
Upstream (Site #1) of Tributary to Massey Creek.



Upstream (Site #2) of Tributary to Massey Creek.



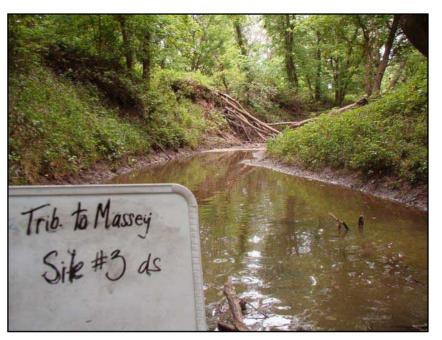
Downstream (Site #1) of Tributary to Massey Creek.



Downstream (Site #2) of Tributary to Massey Creek.



Upstream (Site #3) of Tributary to Massey Creek.



Downstream (Site #3) of Tributary to Massey Creek.

Field Data Sheet for Recreational Use Stream Survey

| Stream Name Trib to MASSEY Cr (WBID# 1268) |
|---|
| I. Introduction |
| Date & Time (include AM or PM): 4:00 5-21-07 |
| Interviewed: In person By phone By mail (NOTE: If you are an Interviewee filling out this form to mail back to DNR, proceed to Question #1.) |
| Interviewee selected because (e.g., house next to stream; standing by stream, etc.) |
| Interviewer introduction to Interviewee: "My name is, I work for(name of your employer), and I am collecting information on how people use(name of the stream)" ASK: 1.) Are you willing to respond to a survey about this stream? (It will just take a few minutes.) Yes No If yes, list contact information for the interviewee below: Legal name: //CPSHAL " LOYD MINKS Current mailing address: 3207 & 247th ST. CLEVELAND MO 6473 Daytime phone number: (316) 618 - 3154 E-mail address (optional): |
| 2.a.) Do you live in this area? Yes No If yes, how many years? |
| 2.b.) If you don't live nearby, are you still familiar with this stream? Yes No If yes, how many years? If no, thank the individual for taking the time to talk to you and conclude the interview. |
| 3.) Are you familiar with this particular stretch of the stream? (show them the map, pointing out local landmarks such as roads, bridges, property lines) Yes No If yes, proceed to "II. Personal Use?". If no, proceed to Section V. |
| II. Personal Use? 1.) Have you or your family personally used the stream for recreation since November 28, 1975? Yes No If yes, proceed to #3. If no, proceed to #2. |
| 2.a.) List reasons stream not used. |
| |
| 2.b.) Proceed to "III. Witnessed Use?". |
| 3.) How do you use the stream? |

| Whole Body Contact Recreation |
|--|
| Swimming Tubing Snorkeling/Skin Diving Water Skiing |
| If Interviewee (or family) used the stream for WBCR since Nov. 28, 1975, ask: |
| 4.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? |
| |
| 4.b.) Where, exactly? Describe specific location and mark on the map (See map requirements in the protocol) |
| |
| |
| Secondary Contact Recreation |
| Fishing Wading Boating Other: List: |
| If Interviewee (or family) used the stream for SCR since Nov. 28, 1975, ask: |
| 4.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? |
| |
| |
| 4.d.) Where, exactly? Describe specific location and mark on the map (See map requirements in the protocol). |
| |
| |
| III. Witnessed Use? |
| 1.) Have you observed others using this stream for recreation since Nov. 28, 1975? Yes No |
| If yes, proceed to #2. If no, proceed to, "IV. Anecdotal Use?". |
| 2.) What kinds of uses have you witnessed? |
| Whole Body Contact Recreation |
| Swimming Tubing Snorkeling/Skin Diving Water Skiing |
| |
| If Interviewee witnessed WBCR use since Nov. 28, 1975, ask the following questions: |
| 2.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? |
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| |

| 2.b.) Where, exactly? Describe specific location and mark on the map (Seemap requirements in the protocol) |
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| |
| Secondary Contact Recreation Fishing Wading Boating Trapping Other: List: |
| ounci. List. |
| If Interviewee witnessed SCR use since Nov. 28, 1975, ask the following questions: |
| 2.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? |
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| |
| 2.d.) Where, exactly? Describe specific location and mark on the map (Seemap requirements in the protocol) |
| |
| |
| IV. Anecdotal Use? |
| Have you heard about anyone using this stream since Nov. 28, 1975 for recreation – not seen or done yourself, but just heard about it? Yes No If yes, proceed to #2. If no, thank the individual for taking the time to talk to you and conclude the interview. What kind of uses have you heard about? |
| Whole Body Contact Recreation |
| Swimming Tubing Snorkeling/Skin Diving Water Skiing |
| If Interviewee heard of WBCR use since Nov. 28, 1975, ask the following questions: |
| 2.a.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? |
| |
| 2.b.) Where, exactly? Describe specific location and mark on the map (See map requirements in the protocol). |
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February 5, 2007

| Fishing Wading Boating Trapping Other: List: If Interviewee heard of SCR use since Nov. 28, 1975, ask the following questions: 2.c.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? 2.d.) Where, exactly? Describe specific location and mark on the (See map requirements in the protocol). V. Others to Contact? Can you recommend someone else we could contact that knows the stream? Yes No If yes, that person's contact info (name, address, phone, directions?) If no, thank the individual for taking the time to talk to you and conclude the interview. VI. Additional Comments 1.) From the Interviewee: 2.) From the Interviewee: Yes No If yes, how (check all that apply): | Secondary Contact Recreation |
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| V. Others to Contact? Can you recommend someone else we could contact that knows the stream? | protocol) |
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| Has interviewer been trained by Missouri DNR to conduct UAA Interviews? Yes No If yes, how (check all that apply): Workshop? (if so, enter date): On-line training seminar? Followed Interview Instruction Sheets? Other Interviewer Information: | 2.) I fold the little viewer. |
| Has interviewer been trained by Missouri DNR to conduct UAA Interviews? Yes No If yes, how (check all that apply): Workshop? (if so, enter date): On-line training seminar? Followed Interview Instruction Sheets? Other Interviewer Information: | |
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| Workshop? (if so, enter date): On-line training seminar? Followed Interview Instruction Sheets? Other Interviewer Information: | Has interviewer been trained by Missouri DNR to conduct UAA Interviews? |
| Followed Interview Instruction Sheets? Other Interviewer Information: | Yes No If yes, how (check all that apply): |
| Other Interviewer Information: | On line training coming 2 |
| Other Interviewer Information: | Followed Interview Instruction Chartes |
| Interviewer Information: | Other |
| | Ottici |
| | Interviewer Information |
| Signature: | |
| Signature: Printed Name: | Printed Name: |
| Timed Panic. | Timica Ivanic. |
| The state of the s | Employer (where applicable): Interviewer's phone #: E-mail: |
| Interviewer's phone #: | E-mail: |

Field Data Sheet for Recreational Use Stream Survey

Data Sheet D—Recreational Use Interview

| Stream Name (WBID # |
|--|
| I. Introduction |
| Date & Time (include AM or PM): 6:12 Pm |
| Interviewed: In person By phone By mail (NOTE: If you are an Interviewee filling out this form to mail back to DNR, proceed to Question #1.) |
| Interviewee selected because (e.g., house next to stream; standing by stream, etc.) |
| Interviewer introduction to Interviewee: "My name is, I work for(name of your employer), and I am collecting information on how people use(name of the stream)" ASK: 1.) Are you willing to respond to a survey about this stream? (It will just take a few minutes.) Yes No If yes, list contact information for the interviewee below: Legal name: Pay BEETON Current mailing address: 25010 S. GROA Rb CLEVELAND, Mo Daytime phone number: (816) 618 3089 E-mail address (optional): |
| 2.a.) Do you live in this area? Yes No If yes, how many years? Syerres 2.b.) If you don't live nearby, are you still familiar with this stream? Yes No If yes, how many years? If no, thank the individual for taking the time to talk to you and conclude the interview. 3.) Are you familiar with this particular stretch of the stream? (show them the map, pointing out local landmarks such as roads, bridges, property lines) Yes No If yes, proceed to "II. Personal Use?". If no, proceed to Section V. II. Personal Use? 1.) Have you or your family personally used the stream for recreation since November 28, 1975? |
| If yes, proceed to #3. If no, proceed to #2. 2.a.) List reasons stream not used. |
| |
| 2.b.) Proceed to "III. Witnessed Use?". |
| 3.) How do you use the stream? |

| Whole Body Contact Recreation |
|--|
| Swimming Tubing Snorkeling/Skin Diving Water Skiing |
| If Interviewee (or family) used the stream for WBCR since Nov. 28, 1975, ask: |
| 4.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? |
| |
| 4.b.) Where, exactly? Describe specific location and mark on the map (See map requirements in the protocol) |
| |
| Sacordam Control P |
| Fishing Wading Boating Trapping Other: List: |
| Tiot. |
| If Interviewee (or family) used the stream for SCR since Nov. 28, 1975, ask: |
| 4.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? |
| |
| |
| 4.d.) Where, exactly? Describe specific location and mark on the map (See map requirements in the protocol). |
| III. Witnessed Use? |
| 1.) Have you observed others using this stream for recreation since Nov. 28, 1975? Yes No |
| If yes, proceed to #2. If no, proceed to, "IV. Anecdotal Use?". |
| 2.) What kinds of uses have you witnessed? |
| Whole Body Contact Recreation |
| Swimming Tubing Snorkeling/Skin Diving Water Skiing |
| If Interviewee witnessed WBCR use since Nov. 28, 1975, ask the following questions: 2.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? |
| |
| |

| 2.b.) Where, exactly? Describe specific location and mark on the map (Seemap requirements in the protocol) |
|---|
| |
| |
| |
| Secondary Contact Recreation |
| Fishing Wading Boating Trapping Other: List: |
| If Interviewee witnessed SCR use since Nov. 28, 1975, ask the following questions: |
| 2.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? |
| |
| |
| 2.d.) Where, exactly? Describe specific location and mark on the map (Seemap requirements in the protocol) |
| |
| IV. Anecdotal Use? |
| Have you heard about anyone using this stream since Nov. 28, 1975 for recreation – not seen or done yourself, but just heard about it? Yes No If yes, proceed to #2. If no, thank the individual for taking the time to talk to you and conclude the interview. What kind of uses have you heard about? |
| Whole Body Contact Recreation |
| Swimming Tubing Snorkeling/Skin Diving Water Skiing |
| If Interviewee heard of WBCR use since Nov. 28, 1975, ask the following questions: |
| 2.a.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? |
| |
| 2.b.) Where, exactly? Describe specific location and mark on the map (See map requirements in the protocol). |
| |
| |

| Secondary Contact Recreation |
|---|
| Fishing Wading Boating Trapping Other: List: |
| If Interviewee heard of SCR use since Nov. 28, 1975, ask the following questions: |
| 2.c.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)? |
| 2.d.) Where, exactly? Describe specific location and mark on the (See map requirements in the protocol). |
| V. Others to Contact? Can you recommend someone else we could contact that knows the stream? Yes No |
| If yes, that person's contact info (name, address, phone, directions?) |
| If no, thank the individual for taking the time to talk to you and conclude the interview. |
| VI. Additional Comments |
| 1.) From the Interviewee: Persons CAN ALLESS The STREAM EASIER to E. OF HIS DRIVE IF PARKING ON his PROPERTY X DO NOT PARK IN GRASS USUALLY HOME DURING THE DAY, WILL BE GLAS TO HELP IF NECESSARY TUST CALL. |
| 2.) From the Interviewer: |
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| VII. Information on Interviewer |
| Has interviewer been trained by Missouri DNR to conduct UAA Interviews? Yes No If yes, how (check all that apply): Workshop? (if so, enter date): On-line training seminar? Followed Interview Instruction Sheets? Other |
| Interviewer Information: Signature: Printed Name: |
| Timed Name. |
| Employer (where applicable): Interviewer's phone #: F-mail: |

February 5, 2007